Document code: WFEE

United States Patent and Trademark Office Sales Receipt for Accounting Date: 12/13/2006

SALE #00000004 Mailroom Dt: 12/04/2006 031728 10743638 01 FC: 1251 120.00 DA LBADIE

Adjustment date: 02/16/2007 SDIRETA1 10743638 12/13/2006 LBADIE 120.00 CR

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on February 1, 2007.

Applicant

: Hyeong-Gon Noh, et al.

Confirmation No. 8214

Application No. : 10/743,638

Filed Title

: December 22, 2003

: ELECTROLYTE FOR RECHARGEABLE LITHIUM BATTERY AND

RECHARGEABLE LITHIUM BATTERY COMPRISING SAME

Grp./Div.

Examiner

: Laura S. Weiner

Docket No.

: 51493/Y35

REQUEST FOR REFUND

Mail Stop 16 Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

Post Office Box 7068 Pasadena, CA 91109-7068 February 1, 2007

Commissioner:

In reviewing our deposit account statement (no. 03-1728) for the month of December 2006, (copy attached) we noted the following incorrect charge:

12/13 10

10743638

51493/DBP/Y35

%120.00

The charge appears to be the fee for a one-month extension of time for a response to the Office action dated October 26, 2006, which had a one-month due date. Our response was mailed to the USPTO with a Certificate of Mailing on November 27, 2006 (November 26, 2006 was a Sunday), therefore no additional fees were due.

Application No. 10/743,638

Please refund the \$120.00 fee and credit Deposit Account No. 03-1728.

Respectfully submitted,

CHRISTIE, PARKER & HALE, LLP

D. Bruce Prou

Reg. No. 20,958 626/795-9900

DBP/vdw

Enclosures:

Deposit Account Statement for the month of December 2006

Copy of Office action dated October 26, 2006

Copy of Response with Certificate of Mailing dated November 27, 2006

VDW PAS721624.1-*-02/1/07 9:11 AM





Deposit Account Statement

Requested Statement Month: Deposit Account Number:

Name: Attention: Address:

City: State:

Zip: Country: December 2006

031728

CHRISTIE PARKER & HALE

BYRON C. HIBDON P.O. BOX 7068

PASADENA

CA

ATTORNEY

91109-7068

UNITED STATES

DATI	E SEQ	POSTING REF TXT	DOCKET NBR	FEE CODE	AMT	BAL
12/01 12/01 12/01 12/01 12/01 12/01 12/01	79 244 245 600 619 758 18 359	77054130 78648392 78515626 78382551 78382551 78653184 Control (19) 29249613 10562368 78549999 10569591		7001 7004 7004 7004 7003 7004 1463 8021 7004 2642	\$325.00 \$150.00 \$300.00 \$150.00 \$150.00 \$200.00 \$40.00 \$150.00 \$150.00	\$76,957.62 \$76,807.62 \$76,507.62 \$76,357.62 \$76,257.62 \$76,107.62 \$75,907.62 \$75,867.62 \$75,717.62 \$75,567.62
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		77055014	58737/L511 / DRK	7001	\$100.00 \$975.00	\$71,702.62 \$70,727.62
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12/04	647	29250816	58407/G323/17EY	2012	\$100.00	\$70,562.62
12/04	648	29250816	- 58407/G323/ 17/L×	9 //	\$50.00	\$70,512.62
12/04	649	29250816	58407/G3231 17/2√	2312	\$65.00	\$70,447.62
12/04	987	29250822	57939/G323/DENC	2012	\$100.00	\$70,347.62
12/04	989	29250822	57939/G323/ DRV	2312	\$65.00	\$70,282.62
12/04	988	29250822	57939/G3231 DIZIC	2112	\$50.00	\$70,232.62
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12/04	223	11403659	A557:58370/7.MC	8021		\$70,052.62
12/04		11520495	M521:58381/DBP	+ //		\$70,012.62
12/04	138	29244409	58240/T580 /MM	<i>- ,</i>		\$69,612.62

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,	*	12/12	3	PCT/US06/41886	55868/4316/170	9204	J/ ;-\$700.00	\$44,067.62	
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		12/13			M521:57036/DBP	8021	\$40.00	\$43,927.62	
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		12/14	887	78410722	52479/M714/ORX	7004	\$450.00	\$39,532.62	
		12/14	2210	11561276	58193/H611/LJP	1011	\$300.00	\$39,232.62	
		12/14	2214	11561276	58193/H611/ふりゃ	1201	//, \$400.00	\$38,832.62	
		12/14	2213	11561276	58193/H611/ CJ P	1202	J // \$100.00	\$38,732.62	
		12/14	2211	11561276	58193/H611/CJP	1111	\$500.00 _/ /	\$38,232.62	
		12/14	2212	11561276	58193/H611/ PJK	1311	\$20,0.00	\$38,032.62	
		12/14	1249	77063828	58958/P3961 ベダ	7001	// \$325.00	\$37,707.62	
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		12/14	375	29269227	58728/D521/17AP	8021	/// \$40:00	\$37,517.62	•
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		12/14	25	10984074	53787/DJB/V232	2202	J/ \$200.00	\$37,127.62	
		12/14	73	10373516	49362/DMC/C685	2253	// \$510.00	\$36,617.62	
		12/14	480	78963199	G411:58324-ECM/ผูปฟ	8507	\$15.00	\$36,602.62	
		12/15	111	10930397	53422/S968 12 AG	8021	V /, \$40.00	\$36,562.62	
		12/15	557	77064594	58521/DBP/C721	7001	/// \$325.00	\$36,237.62	
		12/15	572	77064602	58523/DBP/C721	7001	// ; \$325.00	\$35,912.62	
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		12/15		11521931	58071/L550/768	8021	// ,\$40.00	\$35,547.62	
		12/15		11521849	58182/S1082/იც?	8021	\$40.00	\$35,507.62	
		12/15		11541037	58425/Y35/713P	8021	\$40.00	\$35,467.62	
		12/15	.363	11528854	S1170:57994/DBP	8021	\$40.00	\$35,427.62	
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_				11514318	56825/DBP/S1187	8021	// \$40.00	\$35,022.62	
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12/21 11
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12/21 399
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	12/22 1	10846314	52407/RDS/A797	1253	\$510.00	\$101,637
	12/22 711	78851769	57488/D569 / WNM	7005 T	\$100.00	\$101,537
	12/22 712	78851769	57488/D569 / WWM	7001 V	// \$325.00	\$101,212
	12/22 1060	1422842	18716/222 / 45し	7205	// /\$100.00	\$101,112
	12/22 1061	1422842	18716/Z22/65L	7201	\$400.00	\$100,712
	12/22 197	10455873	50164/RAG/C766	2501 🗸	/	\$100,012
	12/22 198	10455873	50164/RAG/C766	1504	\$300.00	\$99,712.
	12/22 199	10455873	50164/RAG/C766	8001 🗸	/ \$30.00	\$99,682.
	12/22 99	11498931	57776/B884 iMECT	1051	/ / \$130.00	\$99,552.
	12/22 100	11498931	57776/B884/MEG	1252	// \$450.00	\$99,102.
	12/22 23	09944534	47013/SAH/S850	1251 (//\$120.00	\$98,982.
	12/22 5	10542177	155503/530711768	9204 \	// -\$ 50.00	\$99,032.
	12/26 1	10679820	51005/MF6/M60	2251 \	// \$60.00	\$98,972.
		11542744	Y35:58334/DBP	8021	\$40.00	\$98,932.
	12/26 88	78538699	54118/A23/6JN	7004 🔪	// , \$ 300.00	\$98,632.1
	12/26 129	78275742	50732/R56316JN	7004	//, \$300.00	\$98,332.
		78381112	52304/G440/MM	7003	/// \$ 600.00	\$97,732.
	12/26 74	11498931	B884:57776/SM	8021 .	// _, \$40.00	\$97,692.
	12/26 319	77070575	58828/H669 INGM	7001	// _/ \$325.00	\$97,367.
	12/26 228	10571411	57056/M521/DG(²	8021	//, \$40.00	\$97,327.
•	12/26 691	78462150	53215/S1147 <i>/5A</i> H	7004	\$150.00	\$97,177.
	12/26 696	78508696	53817/H362 / 5 AH	7004 5	// _; \$150.00	\$97,027.
	12/26 310	11543724	S1187:58363/DBP	8021 🗸	/ /j \$40.00	\$96,987.
	12/26 312	11543468	L550:58289/DBP	8021	// \$40.00	\$96,947.
		11137743	55189/DMC/S584	1801	// \$790.00	\$96,157.
		11137743	•	.1251 🔪	// \$120.00	\$96,037.
		60876246	58903/K163/THD	1005 \	\$200.00	\$95,837.)
		78511642	53723/G504/DJS/LLB	7004	\$300.00	\$95,537.
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		11229117	55436/DBP/Y35	1201 🗸	\$200.00	\$94,937.
		2514113	58632/A677-AW	7205	\$100.00	\$94,837.
		2514113	58632/A677-AW	7208	\$200.00	\$94,637.
		1463487	58632/A677-AW	7205	\$100.00	\$94,537.
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		2033687	58630/A677-AW	7201	\$400.00	\$93,637.
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		10814618	52230/DBP/A400	1504 -	\$300.00	\$93,387.
<u> </u>	12/27 506		58644/M522/RP(8021	\$40.00	\$93,347.
				8021	\$40.00	\$93,307.
	12/28 1470		50679/RAG/C766	2801 i	// \$395.00 / \$550.00	\$92,912.
	12/28 709		58892/A23 バップへ M521:57058/DBP	7001 🗸	// \$650.00 .	\$92,262.
		10570636	57376/S1187/938	8021	// \$40.00	\$92,222.
		11518042 11512649	56926/\$1187 (70%	8021	\$40.00	\$92,182.
	12120 321	11312043		8021	\$40.00	\$92,142 <i>.</i> ·

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	12/28	328	11521522	57072/S1187 <i>/0</i> K	8021 🗸 /	\$40.00	\$92,102.
	12/28	69	09919365	45621/FLC/F179	1801 <i>Jij</i>	\$790.00	\$91,312.
	12/28	70	09919365	45621/FLC/F179	1251 //	\$120.00	ا.192,192
_	12/29	1897	11617540	578117A64777750	1011 , ///	\$300.00	\$90,892.
	12/29	1900	11617540	57811/A647 /DJB	1202	\$1,000.00	\$89,892.
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	12/29	1899	11617540	57811/A647/75B	1311	\$200.00	\$89,492.
	12/29	1898	11617540	57811/A647/OJB	.1111 //	\$500.00	\$88,992.
	12/29	17	10789218	52067/MEG/B603	2801 1//	\$395.00	\$88,597.
	12/29	652	78327017	51520/R563/GJN	7004 . //	\$150.00	\$88,447.
	12/29	658	78531433	54055/T558/GON	7004	\$150.00	\$88,297.
	12/29	663	78395729	52327/R563 /GJN	7004	\$150.00	\$88,147.
	12/29	288	11524234	57953/S1187/17/5/	8021 7//	\$40.00	\$88,107.
	12/29	290	11595549	58610/A400, DBP	8021	\$40.00	\$88,067.
	12/29	294	11493150	58120US/M981/IVNY	8021 V i	\$40.00	\$88,027.
•	12/29	296	US0628962	•	8021	\$40.00	\$87,987.
	12/29	721	2027454	26807/G207/ DAR	7205 //,	\$100.00	\$87,887.
	12/29	722	2027454	26807/G207/DAP	7201	\$400.00	\$87,487.
	12/29	769	78903326	D569/57785 /W N M	7001 \(//	\$325.00	\$87,162.
	12/29	109	10794785	52050/DMC/S965	1251	\$120.00	\$87,042.
	12/29	64	11417474	57635/C685/7ML	2201	\$100.00	\$86,942.
	12/29	65	11417474	57635/C685 / 17ML	2202 J	\$575.00	\$86,367.
			START	SUM OF	SUM OF	END	
			BALANCE	CHARGES	REPLENISH	BALANCE	
			\$77,282.62	\$68,060.00	\$77,145.00	\$86,367.62	

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UNITED STATES PA. .NT AND TRADEMA.... OFFICE

SCA. 51493

084

UNITED STATES DEPARTMENT OF COMMERC United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandris, Virginia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,638	12/22/2003	Hyeong-Gon Noh	51493/DBP/Y35	8214
23363 75	590 10/26/2006		EXAMI	NER
	ARKER & HALE, LLP	RECEIVED	WEINER, I	AURA S
PO BOX 7068	CA 91109-7068		ART UNIT	PAPER NUMBER
	CA 91109-7000	OCT 81 2006	1745	
Y35:	۸۸ من		DATE MAILED: 10/26/2006	i
CASE - 51493	ACTION Min UA	CHRISTIE, PARKER & HALE, LLP		
REMINDER	DUE DATE 1176/0	,		
DEADLINE	4/7.6/18			

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)
	10/743,638	NOH ET AL.
Office Action Summary	Examiner	Art Unit
	Laura S. Weiner	. 1745
The MAILING DATE of this communication a	appears on the cover sheet w	th the correspondence address -
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	S DATE OF THIS COMMUNI 1.135(a). In no event, however, may a reliated will apply and will expire SIX (5) MON and a gauss the application to become As	CATION. sply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 2!	9 <u>December 2003</u> .	
	his action is non-final.	
3)☐ Since this application is in condition for allo		
closed in accordance with the practice unde	er Ex parte Quayle; 1935 C.[), 11, 453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1-18</u> is/are pending in the applicat	ion.	
4a) Of the above claim(s) is/are without		
5) Claim(s) is/are allowed.		
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) 1-18 are subject to restriction and	or election requirement.	
Application Papers		
9) The specification is objected to by the Exam	niner.	
10) The drawing(s) filed on is/are: a)		by the Examiner.
Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the cor	rection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		•
12)⊠ Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C.	119(a)-(d) or (f).
a)⊠ All b) ☐ Some * c) ☐ None of:		
1.⊠ Certified copies of the priority docum		
2. Certified copies of the priority docum		••••
3. Copies of the certified copies of the p		received in this National Stage
application from the International Bur * See the attached detailed Office action for a	, , , , , , , , , , , , , , , , , , , ,	raceived
See the attached detailed Office action for a	ist of the certified copies not	received.
Attachment(s)		
1) Notice of References Cited (PTO-892)		Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of I 6) Other:	nformal Patent Application
J.S. Patent and Trademark Office	•	

Application/Control Number: 10/743,638

Art Unit: 1745

Page 2

DETAILED ACTION

Election/Restrictions

1. Claims are generic to the following disclosed patentably distinct species: An electrolyte comprising an additive represented by Formula 1 and a non-aqueous solvent. The species are independent or distinct because The additive has an X component that is a functional group that includes Y where X can be SO2, CO, SO or PO and Y can be B, C, Si, N, P or S. The additive has an A component which can be O or NR. The non-aqueous organic solvent can be a cyclic carbonate, a linear carbonate, an ester, an ether, a ketone or mixtures thereof. The solvent can also further include an halogenated benzene. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election. Please define X, Y and A for the additive and chose a solvent or solvent system citing if the halogenated benzene is present.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

Application/Control Number: 10/743,638

Art Unit: 1745

1

 A telephone call was not made to request an oral election to the above restriction requirement, therefore did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Application/Control Number: 10/743,638

Art Unit: 1745

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura S. Weiner whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Laura S Weiner
Primary Examiner
Art Unit 1745

October 25, 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE AMENDMENT TRANSMITTAL LETTER

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to Commissioner for Palents, P.O. Box 1450. Alexandrid. VA 22313-1450 on November 27, 2006.

Signature

Applicant

: Hyeong-Gon Noh, et al.

Application No.

: 10/743,638

Filed

: December 22, 2003

Title

: ELECTROLYTE FOR RECHARGEABLE LITHIUM BATTERY AND

RECHARGEABLE LITHIUM BATTERY COMPRISING SAME

Grp./Div.

: 1745

Examiner

: Laura S. Weiner

Docket No.

: 51493/Y35

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Post Office Box 7068 Pasadena, CA 91109-7068

Confirmation No. 8214

November 27, 2006

Commissioner:

Enclosed is an amendment to the above-identified application.

		CLAIM	IS AS AME	NDED		
	Claims Remaining After Amendment	Highest Number Paid For	Number Extra Claims	Small Entity Rate	Large Entity Rate	FEE
Total Claims Fee	20	*20	0	x \$25.00	x \$50.00	
Independent Claims	3	** 3	0	x \$100.00	x \$200.00	
Multiple Dependent Claims ***				\$180.00	\$360.00	
TOTAL FILING FEE						
NO ADDITIONAL FEE REQUIRED	IF NO FEE RI	EQUIRED, I	NSERT "0"	•		(
FEE NO ADDITIONAL			NSERT "0"			

Amendment Transmittal Letter Application No. 10/743,638

• IF HIGHEST NUMBER PREVIOUSLY PAID FOR IS 20 OR LESS, WRITE "20" IN COLUMN 3
•• IF HIGHEST NUMBER PREVIOUSLY PAID FOR IS 3 OR LESS, WRITE "3" IN COLUMN 3
••• PAY THIS FEE ONLY WHEN MULTIPLE DEPENDENT CLAIMS ARE ADDED FOR THE FIRST TIME

Attached is our check for \$ to pay the fees calculated above.

A Petition for Extension of Time and the required fee are enclosed.

Other enclosures:

The Commissioner is hereby authorized to charge any fees under 37 CFR 1.16 and 1.17 which may be required by or to give effect to this paper to Deposit Account No. 03-1728. Please show our docket number with any charge or credit to our Deposit Account. A copy of this letter is enclosed.

Respectfully submitted,

CHRISTIE, PARKER & HALE, LLP

David A. Plumley
Reg. No. 37,208
626/795-9900

DAP/rjl

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1 hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450. Alexandria, VA 22313-1450 on November 27, 2006.

Robert 1. Lorch

Appl No. Applicant

: 10/743,638

: Hyeong-Gon Noh, et al.

Filed

: December 22, 2003

Title

: ELECTROLYTE FOR RECHARGEABLE LITHIUM BATTERY AND

RECHARGEABLE LITHIUM BATTERY COMPRISING SAME

TC/A.U.

: 1745

Examiner

: Laura S. Weiner

Docket No.

: 51493/Y35

Customer No.

: 23363

RESPONSE TO RESTRICTION REQUIREMENT AND AMENDMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450

Post Office Box 7068 Pasadena, CA 91109-7068 November 27, 2006

Confirmation No. 8214

Alexandria, VA 22313-1450

Commissioner:

In response to the Office action of October 26, 2006, please amend the above-identified application as follows:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Remarks/Arguments begin on page 7 of this paper.

Amendments to the Specification:

Please replace the paragraph on page 1, lines 5-7 with the following paragraph:

This application claims priority to en Korean patent application No. 2002-84987 filed in the Korean Intellectual Property Office on December 27, 2002, the entire disclosure of which is incorporated hereinto by reference.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

(Original) An electrolyte for a rechargeable lithium battery comprising:
 a non-aqueous organic solvent;
 a lithium salt; and
 an additive represented by formula 1:



(1)

where X is a functional group that includes Y, where Y is an element selected from Groups 3, 4, 5, and 6 of the Periodic Table; and

A is O or NR, where R is a C₁ to C₆ alkyl group; wherein if X is CO, A is NR.[[]]

- 2. (Original) The electrolyte of claim 1, wherein Y is selected from the group consisting of B, C, Si, N, P, and S.
- 3. (Original) The electrolyte of claim 1, wherein X is selected from the group consisting of SO₂, CO, SO, and PO.
- 4. (Original) The electrolyte of claim 1, wherein the additive is provided in an amount between 0.01 and 10 wt% of the weight of the non-aqueous organic solvent.
- 5. (Original) The electrolyte of claim 1, wherein the non-aqueous organic solvent is selected from the group consisting of cyclic carbonates, linear carbonates, esters, ethers, ketones and mixtures thereof.
- 6. (Original) The electrolyte of claim 5, wherein the non-aqueous organic solvent further comprises a halogenated benzene represented by formula 2[[.]]:



(2)

where X is F, Cl, Br or I, and n is an integer from 1 to 3.

- 7. (Original) The electrolyte of claim 6, wherein the halogenated benzene is provided in an amount between 1 and 20 parts by weight based on 100 parts by weight of the electrolyte.
- 8. (Original) The electrolyte of claim 1, wherein the lithium salt is selected from the group consisting of lithium hexafluorophosphate (LiPF₆), lithium tetrafluoroborate (LiBF₄), lithium perchlorate (LiClO₄), lithium trifluoromethanesulfonate (CF₃SO₃Li), lithium hexafluoroarsenate (LiAsF₆) and mixtures thereof.
 - 9. (Original) A rechargeable lithium battery comprising: an electrolyte comprising a non-aqueous organic solvent, a lithium salt and an additive represented by formula 1:

a positive electrode comprising a positive active material which is capable of intercalating and deintercalating lithium; and

a negative electrode comprising a negative active material which is capable of intercalating and deintercalating lithium; and



(1)

where X is a functional group that includes Y, where Y is an element belonging to Groups 3, 4, 5 or 6 of the Periodic Table; A is O or NR, where R is a C_1 to C_6 alkyl group; and if X is CO, A is NR.

- 10. (Original) The rechargeable lithium battery of claim 9, wherein Y is selected from the group consisting of B, C, Si, N, P, and S.
- 11. (Original) The rechargeable lithium battery of claim 1, wherein X is selected from the group consisting of SO₂, CO, SO, and PO.
- 12. (Original) The rechargeable lithium battery of claim 9, wherein the additive is provided in an amount from 0.01 to 10 wt% of the weight of the non-aqueous organic solvent.
- 13. (Original) The rechargeable lithium battery of claim 9, wherein the negative active material is selected from the group consisting of crystalline carbon, amorphous carbon and carbon composites.
- 14. (Original) The rechargeable lithium battery of claim 9, wherein the non-aqueous organic solvent is selected from the group consisting of cyclic carbonates, linear carbonates, esters, ethers, ketones and combinations thereof.
- 15. (Original) The rechargeable lithium battery of claim 14, wherein the non-aqueous organic solvent further comprises a halogenated benzene represented by formula 2:



(2)

where X is F, Cl, Br or I, and n is an integer from 1 to 3.

- 16. (Original) The rechargeable lithium battery of claim 15, wherein the halogenated benzene is provided in an amount from 1 to 20 parts by weight based on 100 parts by weight of the electrolyte.
- 17. (Original) The rechargeable lithium battery of claim 9, wherein the lithium salt is selected from the group consisting of lithium hexafluorophosphate (LiPF₆), lithium tetrafluoroborate (LiBF₄), lithium perchlorate (LiClO₄), lithium trifluoromethanesulfonate (CF₃SO₃Li), lithium hexafluoroarsenate (LiAsF₆) and combinations thereof.
 - 18. (Original) An electrolyte for a rechargable lithium battery comprising:

> a non-aqueous organic solvent; a lithium salt; and an additive of the form



where X is selected from the group consisting of SO_2 , CO, SO and PO and A is selected from the group consisting of O and NR where R is a C_1 to C_6 alkyl group, wherein, if X is CO, A is NR.

- 19. (New) The electrolyte of claim 18 wherein X is SO₂ and A is O.
- 20. (New) The electrolyte of claim 19 wherein the non-aqueous organic solvent is a mixed solvent comprising at least one cyclic carbonate, at least one linear carbonate, and a halogenated benzene.

REMARKS/ARGUMENTS

In response to the October 26, 2006 restriction requirement, applicant elects the additive represented by Formula (1a) in which Y is S, X is SO₂, and A is O. For the solvent, applicant elects a mixed solvent comprising one or more cyclic carbonates, one or more linear carbonates, and a halogenated benzene. This election is made without traverse.

Applicant submits that all of original claims 1-18 read on the elected species. New claims 19 and 20 have been added by amendment, and both read on the elected species. Claims 1-18 are generic as to the additive, and claims 1-5, 8-14, and 17-19 are generic as to the solvent.

Applicant has also amended the Cross-Reference to Related Application and claims 1 and 6 to correct typographical errors.

Claims 1-20 remain in this application. Applicant submits that all issues from the October 26, 2006 Office action have been addressed, however, if there are any remaining questions, the examiner is asked to contact applicant's counsel at the number below.

Respectfully submitted, CHRISTIE, PARKER & HALE, LLP

David A. Plumley

Reg. No. 37,208 626/795-9900

DAP/rjl

RJL PAS711994.1-*-11/27/06 5:54 PM